Algebra II

Physics

Supplies: meterstick/yardstick, stopwatch, computer

Directions:

Throw underhand from 1 yard

You will need to throw 2 different objects (Each person needs to do this.)

Time from the time you let go until it hits the ground

Rotate between meterstick holder, thrower, timer/recorder, and gopher

Write down each person’s time. (Each person should have two.)

When you get back to the classroom, write down your two times.

Physics equation (for feet and seconds):

h=-16t2 + v0t + h0

vo is initial velocity

h0 is initial height which is 3 feet for our experiment

h is final height in feet

t is time in seconds

**ASSIGNMENT**

**You will hand this in by the end of class. Please complete on paper. Make sure your answers are easily visible.**

**Jake and Quintin-I have your sledding data. You need to use that.**

1. Find the initial velocity for YOUR two throws (2 pts)
2. Write the general quadratic equation filling in the initial velocity and height. You should have two. (2 points)

Ex. h=-16t2 + 32t + 3

1. Find the time at which the item reached its highest point for each equation. (Round to the nearest tenth.) EXPLAIN HOW YOU FOUND IT. (4 pts)

Rubric: -2 if not explain

1. Find how high the object went. (Round to the nearest tenth.) (2 pts)